Form PTO 1449
(Rev. 2-32)U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
FOV-011Serial No.
09/121,175

Information Disclosure Statement by Applicant

Applicant: Richard B. Merrill, et al.

(Use several sheets if necessary)

Filed: 7/22/98

Received
OCT 26 1998Group:
Group 2700

U.S. Patent Documents

Init.	Document No.	Date	Name	Class	Subclass	Filing Date
y	4,901,129	2/13/90	Hynecek	357	30	3/23/89
y	4,942,473	07/17/90	Zeevi, et al.	358	213.26	6/30/88
y	5,014,107	5/7/91	Vora	357	44	8/29/89
y	5,021,853	6/4/91	Mistry	357	23.13	4/27/90
y	5,055,418	10/8/91	Vora	437	31	11/13/90
y	5,117,292	5/26/92	Matsunaga	358	213.19	4/27/90
y	5,161,024	11/3/92	Oishi	358	213.24	5/10/91
y	5,276,521	1/4/94	Mori	358	213.31	12/30/92
y	5,317,174	5/31/94	Hynecek	257	222	2/19/93

Foreign Documents

Translation

Init.	Document No.	Date	Country	Class	Subclass	Yes	No

Other Documents (Including Author, Title, Date, Pertinent Pages, Etc.)

y	Bernwald Rossler "Electrically Erasable and Reprogrammable Read-Only Memory Using the n-Channel SIMOS One-Transistor Cell" IEEE Transactions on Electron Devices Vol ED-24, No. 5 pp 606-610 May 1977
y	Carver A. Mead, et al. "Scanners for Visualizing Activity of Analog VLSI Circuitry" California Institute of Technology Computation and Neural Systems Program pp 1-29 July 5, 1991
y	Eric R. Fossum "Active Pixel Sensors: Are CCD's Dinosaurs?" SPIE Vol. 1900 pp.2-14
y	Hon-Sum Philip Wong, et al. "CMOS Active Pixel Image Sensors Fabricated Using a 1.8-V, 0.25-um CMOS Technology pp 889-894 IEEE Transactions on Electron Devices Vol 45 No. 4 April 1998

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Date considered

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Init.	Document No.	Date	Name	Class	Subclass	Filing Date
y	5,335,015	8/2/94	Cooper, et al.	348	302	10/30/92
y	5,341,008	8/23/94	Hynecek	257	231	9/21/93
y	5,396,289	3/7/95	Nakamura	348	294	7/6/93
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y	5,471,245	11/28/95	Cooper, et al.	348	302	5/19/94
y	5,541,402	7/30/96	Ackland, et al.	250	208.1	10/17/94

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y	Hon-Sum Philip Wong "CMOS Image Sensors - Recent Advances and Device Scaling Considerations" IEEE pp. 201-204 1997
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y	S. Decker et, al. "A 256x256 CMOS Imaging Array with Wide Dynamic Range Pixels and Column-Parallel Digital Output" IEEE International Solid-State Circuits Conference pp.176-177 1998

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Init.	Document No.	Date	Name	Class	Subclass	Filing Date
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y	5,547,881	8/20/96	Wang, et al.	437	24	3/6/96
y	5,572,074	11/5/96	Standley	307	117	6/6/95
y	5,576,763	11/19/96	Ackland, et al.	348	308	11/22/94
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y	R. Panicacci, et al. "1/4-Inch CMOS Active Pixel Sensor with Smart On-Chip Functions and Full Digital Interface" Hot Chips IX pp. 41-54 August 25-26 1997
y	S.M. SZE "Physics of Semiconductor Devices" Wiley-Interscience pp 526-533 1969
y	Stephen John Decker "A Wide Dynamic Range CMOS Imager With Parallel On-Chip Analog-to-Digital Conversion" pp 1-205 1997
y	Sunetra K. Mendis et, al "A 128 x 128 CMOS Active Pixel Image Sensor for Highly Integrated Imaging Systems" IEEE pp.583-586 1993

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<i>W</i>	5,739,562	4/14/98	Ackland, et al.	257	291	08/01/95

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<i>y</i>	T. Delbruck et, al "Analog VLSI Phototransduction by continuous-time, adaptive, logarithmic photoreceptor circuits" California Institute of Technology Computation and Neural Systems Program CNS Memo No. 30 April 2, 1996 pp: 1-24
<i>y</i>	Tobi Delbruck, et al. "Analog VLSI Adaptive, Logarithmic, Wide-Dynamic-Range Photoreceptor" ISCAS '94 Proceedings of the Int'l Symposium on Circuits and Systems IEEE London, May 1994
<i>y</i>	Tatsuo Nomoto, et al. "FA 11.4: A 4M-Pixel Image Sensor with Block and step Access Capability" IEEE International pp.186-187 Plus Four Additional Slides 1997
<i>y</i>	Yoshiaki Hagiwara, Member, IEEE "High-Density and High-Quality Frame Transfer CCD Imager with Very Low Smear, Low Dark Current, and Very High Blue Sensitivity" IEEE Transactions on Electron Devices, Vol. 43 No. 12 pp.2122-2130 December 1996

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Init.	Document No.	Date	Name	Class	Subclass	Filing Date
uy	4,499,529	2/12/85	Figueroa	362	283	8/24/83
uy	4,573,077	2/25/86	Imai	358	212	9/4/84
uy	4,626,915	12/2/86	Takatsu	358	213	7/10/84
uy	4,742,238	5/3/88	Sato	250	578	10/1/86
uy	4,843,474	6/27/89	Suzuki	358	213.19	12/30/87
uy	5,434,620	7/18/95	Higuchi et al.	348	308	9/28/93

Foreign Documents

Translation

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uy	S. Decker et, al. "A 256x256 CMOS Imaging Array with Wide Dynamic Range Pixels and Column-Parallel Digital Output" IEEE International Solid-State Circuits Conference pp.176-177 1998

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U.S. Patent Documents

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Foreign Documents

Translation

Init.		Document No.	Date	Country	Class	Subclass	Yes	No

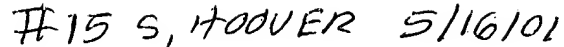
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W		R.M. Guidash, et al. "A 0.6 um CMOS Pinned Photodiode Color Imager Technology" IEDM pp.927-929 1997

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U.S. Department of Commerce
Patent and Trademark Office

FOV-011

09/121,175

Applicant:

Merrill, et al.

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Group: 2712

U.S. Patent Documents

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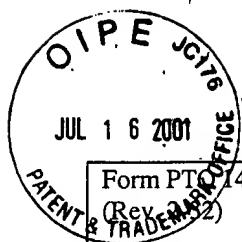
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Form PT-1449

(Rev. 2-83)

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
FOV-011Serial No.
09/121,175

Information Disclosure Statement by Applicant

Applicant: Merrill, et al.

Technology Center 2600

(Use several sheets if necessary)

Filed: July 22, 1998

Group: 2612

U.S. Patent Documents

Init.		Document No.	Date	Name	Class	Subclass	Filing Date
<i>W</i>	1	3,866,067	2/11/75	Amelio	307	311	5/21/73
<i>W</i>	2	3,971,065	7/20/76	Bayer	358	41	3/05/75
<i>W</i>	3	4,011,016	3/08/77	Layne, et al.	356	195	9/23/75
<i>W</i>	4	4,236,760	12/02/80	Haar, et al.	303	6C	3/01/79
<i>W</i>	5	4,238,760	12/09/80	Carr	357	30	10/06/78
<i>W</i>	6	4,309,604	1/05/82	Yoshikawa, et al.	250	226	7/24/79
<i>W</i>	7	4,473,836	9/25/84	Chamberlain	357	30	5/03/82
<i>W</i>	8	4,499,529	2/12/85	Figueroa	362	283	8/24/83
<i>W</i>	9	4,499,590	2/12/85	Bluzer	377	60	1/14/83
<i>W</i>	10	4,573,077	2/25/86	Imai	358	212	9/04/84
<i>W</i>	11	4,613,895	9/23/86	Burkey, et al.	358	41	11/13/78
<i>W</i>	12	4,651,001	3/17/87	Harada, et al.	250	330	12/13/84
<i>W</i>	13	4,677,289	6/30/87	Nozaki, et al.	250	226	11/04/85
<i>W</i>	14	4,704,633	11/03/87	Matsumoto	358	213.27	2/20/86
<i>W</i>	15	4,786,818	11/22/88	Mead, et al.	250	578	11/09/87
<i>W</i>	16	4,839,735	6/13/89	Kyomasu, et al.	358	213.31	12/21/87
<i>W</i>	17	4,845,553	7/04/89	Konomura, et al.	358	98	5/19/88
<i>W</i>	18	5,038,214	8/06/91	Miida	358	213.11	3/10/89
<i>W</i>	19	5,227,887	7/13/93	Dohi, et al.	358	213.27	12/20/91
<i>W</i>	20	5,241,575	8/31/93	Miyatake, et al.	377	60	9/09/92
<i>W</i>	21	5,289,023	2/22/94	Mead	257	291	8/07/92
<i>W</i>	22	5,397,734	3/14/95	Iguchi, et al.	437	70	10/02/92
<i>W</i>	23	5,414,465	5/09/95	Kodama, et al.	348	236	1/03/94
<i>W</i>	24	5,434,620	7/18/95	Higuchi, et al.	348	308	9/28/93

Foreign Documents

Translation

Init.		Document No.	Date	Country	Class	Subclass	Yes	No

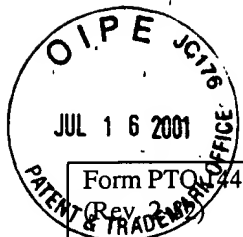
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO-449

U.S. Department of Commerce
Patent and Trademark OfficeTechnology Center 2600
Docket No. FOV-011Serial No.
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Information Disclosure Statement by Applicant

Applicant: Merrill, et al.

(Use several sheets if necessary)

Filed: July 22, 1998

Group: 2612

U.S. Patent Documents

Init.		Document No.	Date	Name	Class	Subclass	Filing Date
y	25	5,461,425	10/24/95	Fowler, et al	348	294	2/15/94
y	26	5,502,299	3/26/96	Standley	250	208.2	12/12/94
y	27	5,668,596	9/16/97	Vogel	348	222	2/29/96
y	28	5,742,058	4/21/98	Pantigny, et al.	250	370.08	5/30/96
y	29	5,801,657	9/01/98	Fowler, et al.	341	155	2/05/97
y	30	5,883,421	3/16/99	Chouikha, et al	257	461	3/13/97
y	31	6,046,444	4/04/00	Afghahi	250	208.1	12/08/97
y	32	6,115,066	9/05/00	Gowda, et al.	348	308	6/12/97
y	33	6,211,510 B1	4/03/01	Merrill, et al.	250	208.1	1/26/00
y	34	6,246,436 B1	6/12/01	Lin, et al.	348	308	11/03/97

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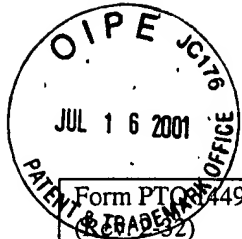
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y	40	01103378	20.04.89	JP	H04N 5	335		
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y	43	08095670	12.04.96	JP	G06F 1	16		
y	44	43 04 506 A1	18.08.94	DE	H04N 5	225		
y	45	198 36 356 A1	12.05.99	DE	H01L 27	1		
y	46	54-108628	25.08.79	JP	G03B 7	20		No
y	47	58-83824	19.05.83	JP	G03B 7	20		No
y	48	59-152424	31.08.84	JP	G03B 7	20		No

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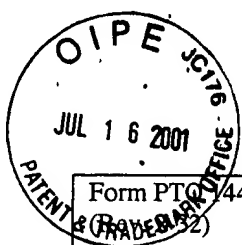


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Form PTO-449 (Rev. 12-92)		U.S. Department of Commerce Patent and Trademark Office		Technology Center 2600		App. Docket No. PCV-011		Serial No. 09/121,175	
Information Disclosure Statement by Applicant						Applicant: Merrill, et al.			
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U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
Foreign Documents									
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Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
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<i>y</i>	51	60-53912	28.03.85	JP	G02B 7	11		No	
<i>y</i>	52	99/66560	23.12.99	Int.	H01L 27	144			
<i>y</i>	53	99/66712	23.12.99	Int.	H04N 3	15			
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<i>y</i>	56	Bob Weibel, "High-End Digital Cameras Can Make Professional Indoor Photography A Snap", Buyer's Guide, Published April 1997, pp. 71-78.							
<i>y</i>	57	Chye Huat Aw, et al. "A 128 x 128 Pixel Standard-CMOS Image Sensor With Electronic Shutter", IEEE International Solid-State Circuits Conference, 1996, pp. 4-39 to 4-40.							
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<i>y</i>	61	Hon-Sum Wong, et al. "Technology and Device Scaling Considerations for CMOS Imagers", IEEE Transactions on Electron Devices, Vol. 43 No. 12, December 1996, pp. 2131-2142.							
<i>y</i>	62	Roland A. Anders, et al., "Developmental Solid-State Imaging System", IEEE Transactions on Electron Devices, Vol. ED-15, No. 4, April 1968, pp. 191-261.							
<i>y</i>	63	Ken Parulski, et al. "Enabling Technologies for a Family of Digital Cameras", Eastman Kodak Company, SPIE Vol. 2654, 1996, Invited Paper, pp. 156-163.							
<i>y</i>	64	Mohamed Ben Chouikha, et al. "Buried Triple p-n Junction Structure in a BiCMOS Technology for Color Detection", IEEE BCTM 6.4, 9/1997 pp. 108-111.							
<i>y</i>	65	Mohamed Ben Chouikha, et al. "Color Sensitive Photodetectors in Standard CMOS and BiCMOS Technologies", SPIE Vol. 2950, 1996, pp. 108-120.							
<i>y</i>	66	R.W.G. Hunt, "The Reproduction of Colour", Fountain Press, England, Fifth Edition 1995, pp. 451-481.							
<i>y</i>	67	Savvas G. Chamberlain, "Photosensitivity and Scanning of Silicon Image Detector Arrays" IEEE Journal of Solid-State Circuits, Vol. SC-4, No. 6, December 1969, pp. 333-342.							
<i>y</i>	68	Hiroki Miura, et al., "A 100 Frame/s CMOS Active Pixel Sensor For 3D-Gesture Recognition System", IEEE International Solid-State Circuits Conference, June 1999, pp. 142-143.							
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Information Disclosure Statement by Applicant				Applicant: Merrill, et al.				
(Use several sheets if necessary)				Filed: July 22, 1998		Group: 2612		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
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y	75	Thierry M. Bernard, "Advanced Focal Plane Arrays and Electronic Cameras", Proceedings EurOpt Series, Vol. 2950, October 1996, pp. 111-120.						
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